

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P292362

Luminaire Tested: **22GR-LD5-20-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-A125-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2151.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

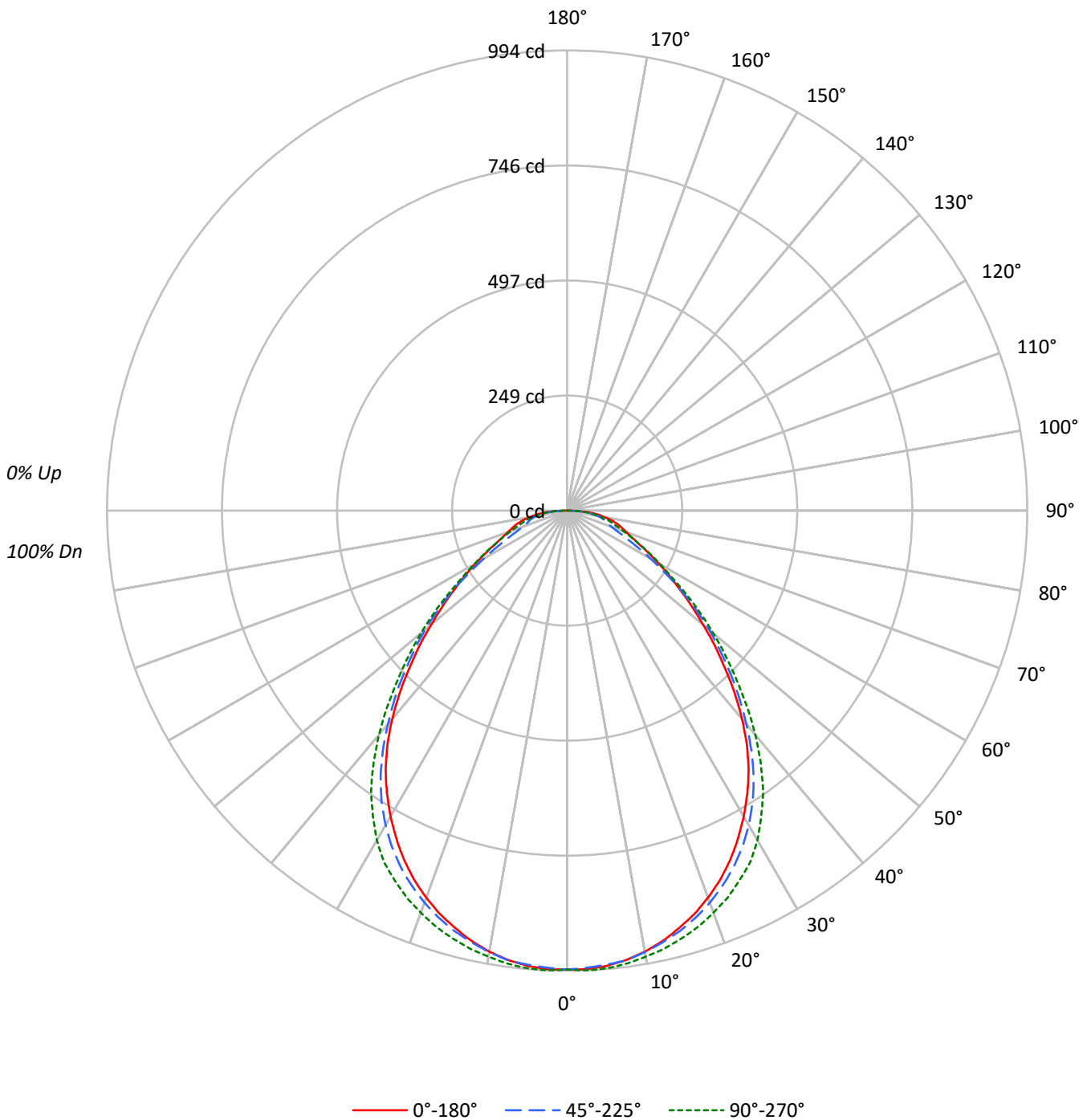
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2668	2668	2668
5°	2666	2659	2681
10°	2643	2646	2674
15°	2601	2620	2664
20°	2548	2581	2647
25°	2473	2524	2616
30°	2370	2437	2554
35°	2246	2308	2425
40°	2065	2116	2222
45°	1834	1901	1970
50°	1602	1675	1726
55°	1393	1412	1463
60°	1225	1123	1250
65°	1089	897	1095
70°	1069	797	1010
75°	1168	876	1032
80°	1283	1041	1103
85°	1535	1207	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	4.4
10°-20°	265.7	12.4
20°-30°	392.3	18.2
30°-40°	439.0	20.4
40°-50°	385.5	17.9
50°-60°	272.8	12.7
60°-70°	158.8	7.4
70°-80°	99.0	4.6
80°-90°	44.3	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	751.8	34.9
0°-40°	1190.7	55.4
0°-60°	1849.0	86.0
0°-90°	2151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	987	984	984	990	992	94
15°	934	936	940	950	956	263
25°	833	836	850	870	881	383
35°	684	687	703	724	738	425
45°	482	488	500	512	518	373
55°	297	303	301	306	312	268
65°	171	158	141	154	172	173
75°	112	97	84	86	99	117
85°	50	52	39	38	40	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	991.5	991.5	991.5	991.5	991.5
2.5°	991.5	989.5	988.5	992.0	994.0
5°	987.0	984.5	984.5	989.5	992.5
7.5°	979.0	976.5	979.5	984.0	987.0
10°	967.4	966.4	968.4	974.5	978.5
12.5°	952.4	952.9	954.9	964.4	969.4
15°	933.8	935.8	940.3	950.4	956.4
17.5°	913.8	915.3	922.3	933.8	942.4
20°	889.7	892.7	901.2	915.8	924.3
22.5°	863.1	866.6	877.2	894.7	905.2
25°	833.0	836.5	850.1	870.1	881.2
27.5°	798.9	804.4	819.5	841.6	856.6
30°	762.8	767.3	784.4	809.5	822.0
32.5°	724.2	729.7	745.8	769.8	780.9
35°	683.6	686.6	702.6	723.7	738.2
37.5°	637.4	638.9	654.0	673.5	686.6
40°	587.8	588.8	602.3	620.9	632.4
42.5°	536.1	536.6	551.2	565.2	575.2
45°	482.0	487.5	499.5	511.6	517.6
47.5°	433.3	437.3	448.4	458.9	464.4
50°	382.7	392.7	400.2	405.7	412.2
52.5°	339.0	347.6	349.6	356.1	361.6
55°	296.9	302.9	300.9	306.4	311.9
57.5°	261.3	258.3	251.8	261.3	268.3
60°	227.7	219.7	208.6	221.7	232.2
62.5°	197.6	184.6	171.0	184.1	201.6
65°	171.0	157.5	140.9	153.5	172.0
67.5°	151.0	136.9	117.4	129.9	148.4
70°	135.9	121.4	101.3	111.8	128.4
72.5°	123.9	108.3	90.8	97.8	111.8
75°	112.3	96.8	84.3	86.3	99.3
77.5°	98.8	87.3	77.2	76.2	86.3
80°	82.8	79.2	67.2	65.7	71.2
82.5°	68.2	66.7	55.2	53.7	55.7
85°	49.7	51.7	39.1	38.1	40.1
87.5°	26.1	28.6	20.6	21.6	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)